



Fuxin Primary School Improves Education with 1:1 Digital Learning Program

Intel® Atom® processor-based Windows® 8 tablets help Chinese school improve teacher productivity and student learning



"We in Fuxin have dedicated our lives to reforming the traditional mode of classroom teaching to help the students learn better with ease and efficiency. We want Fuxin to be a school without walls."

Zheng Yueyun
headmaster
Fuxin Primary School

Since its founding in 2006, Fuxin Primary School, in Shenzhen, China, has explored innovative ways to use technology to improve education. Recently, the school implemented a 1:1 digital learning program that is delivering impressive results—including increasing teacher productivity, strengthening students' problem-solving and critical-thinking skills, and encouraging independent student learning.

SOLUTION

- **Implemented 1:1 digital learning program.** Transformed the classroom experience with Intel® Atom® processor-based Windows 8 tablets and interactive digital software..

BENEFITS

- **Revolutionized teaching philosophy.** Replaced traditional teaching methods with active, autonomous, cooperative, and inquiry-based learning.
- **Developed students' 21st century skills.** Increased students' ability to work cooperatively and use critical-thinking skills to analyze and solve problems.
- **Encouraged mobile teaching and learning.** Freed students to learn anywhere, anytime, and interact with teachers, parents, and peers outside school hours.
- **Improved teaching.** Tablets and educational software helped teachers be more productive and efficient.

Advantages of 1:1 Digital Learning

Fuxin Primary School aims to provide its students not only with textbook knowledge, but also with opportunities to develop the complex interpersonal and technical skills necessary to succeed in the 21st century workplace.

The digital learning philosophy adopted by Fuxin is based in part on research suggesting that interactive classroom experiences can improve learning outcomes. Fuxin has found that students can remember only 5 percent of what they have learned after two weeks of traditional classroom teaching. Multimedia teaching can increase the figure to 20 percent.¹ However, if the students are allowed to apply the knowledge immediately or teach it to others, the figure can rise to 90 percent.

This and related research led Fuxin to implement a 1:1 digital learning program in two experimental classrooms. The Intel-sponsored program includes joint research and project evaluation conducted by educational experts.

Fuxin 1:1 Digital Learning Program Supports Interactive, Personalized Classroom Experience

Key Elements of Digital Learning Program

Fuxin Primary School's 1:1 digital learning program features Intel Atom processor-based Windows 8 tablets, educational software, and software support provided by the Shenzhen Eaglec Computer Technology Company.

- **Tablets.** The tablets adopted by Fuxin are just 8.5 mm thick and weigh 680 grams, making them easy to carry and convenient for anytime, anywhere learning.
- **User interface.** The user interface is easy to use and optimized for touch-enabled tablets.
- **Processor.** The dual-core, multi-threaded Intel Atom processor Z2760 is optimized for Windows 8 tablets and features batteries that stay charged nine hours or more in some models.²
- **Software.** Intel Atom processor-based Windows 8 tablets provide better software and hardware

compatibility than traditional PCs. At Fuxin, students and teachers have adopted interactive content, videos, and exercises designed by teachers, content developers, and others.

- **Peripherals.** The tablets support HDMI, common USB peripherals, and other common software such as Microsoft Office*, which makes it easier for teachers and students to create and share content.

Usage Examples

The Intel Atom processor-based tablets and software have transformed the classroom experience at Fuxin. Traditional teaching methods have been replaced by a more personalized, student-centered teaching model that engages more students and helps them learn group problem-solving skills. For example, questions that traditionally only a small portion of the class could discuss can now be worked on by the entire class using the 1:1 digital teaching platform's discussion tool.



Benefits

- The 1:1 digital learning program has greatly improved the teaching and learning experience at Fuxin Primary School.
- Inside the classroom, the student-centered teaching model provides more opportunities for student participation and interaction, which leads to a more engaging and memorable learning experience. In addition, the tablets and software create new learning opportunities by giving teachers and students more flexibility to communicate outside the classroom.
- Fuxin's 1:1 digital learning program also frees teachers from time-consuming tasks such as grading, so they can spend more time interacting with students. Students also benefit from the opportunity to build their digital literacy and learn the skills they need to succeed in the 21st century workplace, including collaboration, critical thinking, and advanced problem solving.

The tablets and digital teaching model have also improved teachers' productivity. In English language courses, for example, it used to take teachers about 20 minutes to correct tests for classes of 30 or more students. The digital teaching platform now performs assessments and scoring automatically—saving teachers time and effort that they can now use to provide individual counseling and other important services.

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¹ Data Source: National Training Laboratory, Maine, U.S. 1969

² Intel® Architecture-based Windows® 8 tablets provided by Intel Corporation - bringing you a new computing experience. (http://download.intel.com/newsroom/kits/atom/z2760/pdfs/IntelAtomz2760_Based_Tablets.pdf)

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